PIFSC External Review for Fishery Stock Assessments May 2014

Introduction and Charge to Review Panel
Sam Pooley, director

Estimating How Much Fish?

 $B_{NOW} = B_{PREV} + (R + G) - (M + C)$

B_{NOW} = Total Biomass (e.g., weight) of Exploitable Resource

B_{PREV} = Total Previous Biomass Estimate

R = New Entries (Recruits) to the Stock or Population

G = Increase in Biomass due to Growth

M = Loss due to Natural Deaths

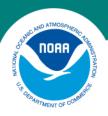
C = Removal from Fishery Catches



Introductions

- Sam Pooley, PIFSC director
- Michael Seki, PIFSC deputy director
- Christofer Boggs, Fisheries division chief
- Beth Lumsden, Fisheries deputy division chief
- Ned Cyr, NMFS Office of Science & Technology
- Rick Methot, NMFS senior scientist for assessments





Introductions

- Dr. Steve Murawski (University of South Florida) – Chair of review
- Dr. Yong Chen (University of Maine, Bangor)
- Dr. Keith Criddle (University of Alaska, Fairbanks)
- Dr. Steve Martell (International Pacific Halibut Commission)
- Dr. Cisco Werner (NOAA Fisheries Southwest Fisheries Science Center)

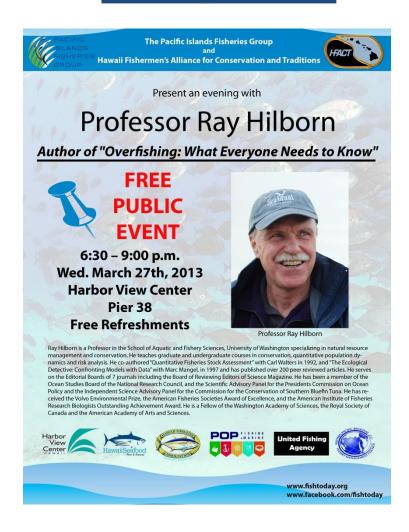




Are we doing the right things right?

- To provide advice on improving the quality, relevance and performance of PIFSC stock assessments
 - Focus on modeling & assessment practices
 - Including timeliness & communication
 - Comments on prioritization & peer review process
 - Comments on PIFSC organization to support stock assessments
- Part of a national approach by NOAA Fisheries, including strategic planning

Purpose





Structure of the Review

- Overview of Center
- Fisheries division organization
- Information available for stock assessments
- Prioritization
- Typical stock assessments
 - Blue marlin
 - Bottomfish
 - Reef fish
- Future approaches





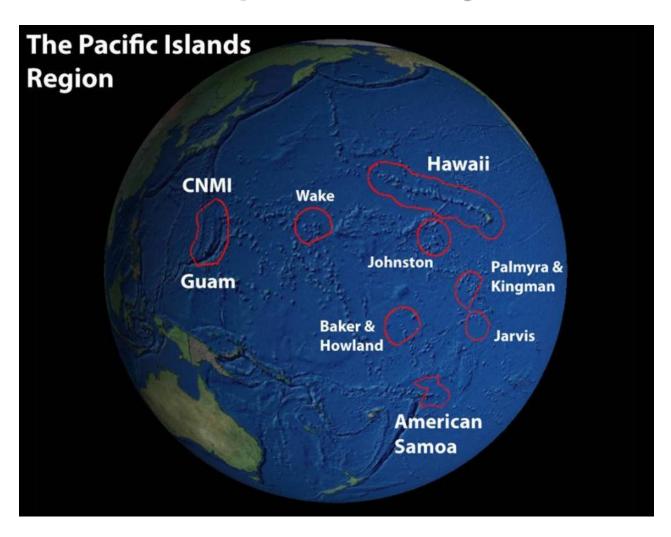
PIFSC Mission

Provide timely, high-quality applied scientific information to support the conservation and management of fisheries, protected species, and marine habitats in the central and western Pacific Ocean





Vast Expanses, Many Cultures





Key Mandates

- Magnuson-Stevens Fishery Conservation and Management Act
- Endangered Species Act
- Marine Mammal Protection Act
- Coral Reef Conservation Act
- International agreements/Regional Fishery Management
- U.S. government administrative and executive orders (e.g., marine national monuments)



PIFSC Science Plan Overview

- Purpose
 - PIFSC strategic orientation
 - NMFS science enterprise approach
- Orientation
 - Mandate-driven
 - Themes
 - Monitor and Assess
 - Environment and Ecosystems
 - Maximizing Effectiveness
- Published March 2013
- Next Step: Implementation planning
 - Applying priorities to budgets



Pacific Islands Fisheries Science Center

Science & Research

Socioeconomics Program Fisheries Research
& Monitoring
Division

Protected
Species Division

Operations & Management

Scientific Operations

(NEPA, Monuments, Permits, Vessel Coordination, Small Boats)

Ecosystems & Oceanography Division

Coral Reefs
Ecosystems
Division

Scientific Information Services

(Publications, Library, Graphics Support)

Budget & Planning

(Program Planning & Formulation)

Operations,
Management &
Information

Public Affairs

(Public Affairs, Outreach & Education)



FY-14 Preliminary Budget Summary

Coral Reef Ecosystems:	\$ 4,685,000
Ecosystems & Oceanography	\$1,075,000
Fisheries: (Fisheries monitoring & research, assessments, WPacFIN, life history, bio-sampling, ecology, territorial science)	\$ 8,545,000
Protected Species: (Hawaiian monk seal, sea turtles, cetaceans)	\$ 5,162,000
Scientific Services: (Including Science Operations, and Scientific Information & Monument science)	\$2,033,000
Socio-economics	\$ 817,000
Center Operations: (Operations-Information-Management, Facilities, etc.)	\$ 6,685,000
TOTAL (all sources)	\$ 29,778,000



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T CF COMMENT	Federal Employees	Other Employees	Total Staff
Fisheries Research & Monitoring Division	27	26	53
Protected Species Division	15	37	52
Ecosystems & Oceanography Division (including Coast/Ocean Watch)	5	5	10
Coral Reefs Ecosystems Division	6	54	60
Socio-economics Program	4	7	11
Scientific information and operations	20	8	28
Directors Office	5	0	5
Operations, Management, and Information (OMI)	23	3	26
Total	105	140	245



PIFSC External Reviews

- 2013Fishery information
- 2012Stakeholder Feedback (no formal review)
- 2011 Sea Turtle Research and Monitoring
- 2010Data Management
- 2009Pelagics Research
- 2008Ecosystem Science
- 2007Center's Science Program





Wrap-Up

Are we doing the right things right?

Provide advice on improving the quality, relevance and performance of PIFSC stock assessments





